19 July 2025 20:48

What is git & GitHub? --> repository
You need to install git & you need to access github repository (personal or enterprise)
Windows/ linux / MacOS

- 1. Installed the git
- 2. You need to create repository



Centralized location SCM

Local Desktop

- 1. Installed the git
- 2. You need to create repository

C: D
Cd : repos
git init SQL-Repo
ls -la
.git

Main --branch Develop

Remote repository --> it's available on github url Local repository

Pull Push

Clone === repo1 cloned into your local

Fetch

Branch ? Isolated In a team 5 members one is

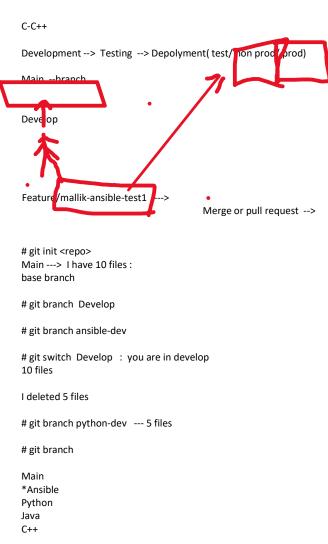
ansible developer Python developer Java developer Teraform developer C / C ++ developer

Repository2 Main Ansible --> Python --> Java

Terraform

C-C++

Development --> Testing --> Depolyment(test/non prod/prod)



git switch python # git switch ansible

git branch

git branch feature/ansible-dev2 # git switch feature/ansible-dev2

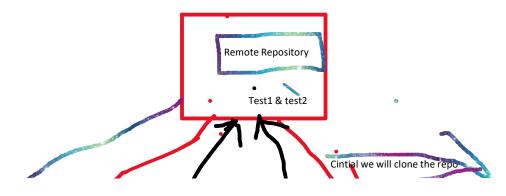
git branch

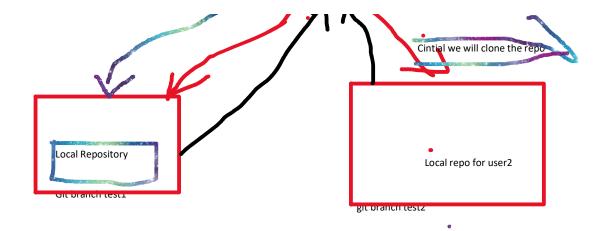
Patching.yml Sql-db-pathcing.yml

git add . --> staging area # git commit -m "adding playing"

Local branch

git push origin feature/ansible-dev2





In my project I have 20 repository

git remote -v

git add test2 test3 test4

git status

git branch

git restore --staged test2

git status

git commit -m " second commit"

git push origin -f feature/testing

If you want to merge the code from brach1 to branch2 or branch1 to develop or to main branch , we have to create pull request or merge request

Branch1 need to merge to branch2

git switch branch2
git merge branch1

And raise a pull request from github

Update from squad Cloud Masters Click to add subtitle Implementation EntralD Roll based access Centralized identity management for users, groups, and roles PIM: require approval for elevated access PIM: require approval for elevated access To do: Remove Access outside of EntralD

Screen clipping taken: 21-07-2025 13:45

Configuration management tool

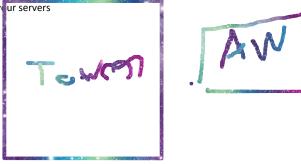
Ansble --- agent less (Redhat) Puppet Chef Slat

2000 srvers

Unix server Windows servers Network Devices

Architehcure Ansible

Controle Node (Master): Where we are going to install ansible (Unix Servers) Managed Nodes: all y ur servers



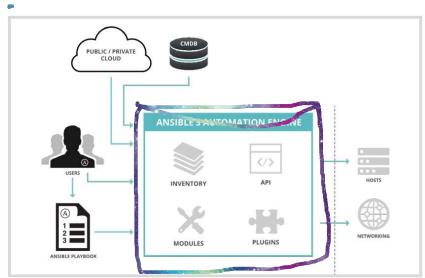


Figure 1.2: Ansible architecture

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Pre:
Controle
Python: 2.6 (unx)
Port 22

Managed: Unix
Python 2.6 or higher
SSH Protocol
Port 22
Username (Service Account)
password

Windows:

Username (Service Account) password Windows: PowerShell : latest .Net latest Winrm Protocol Port: 3985 / 3986 Username (Service Account) Password Password less Authentication SSH key based Authentication Public key Private key Private key will on Controle Node Public key on all managed Nodes Push method /home/ansible-svc/.ssh/authorized_keys What is inventory Static inventory **Dynamic Inventory** Installed the ansible Yum install ansible Rhel 8 on wards # python --version # ansible --version #/etc/ansible/ansible.cfg -> Important Configuration (Default) # III user nome unectory # in present Working dir # Environment Variable Ansbl # /home/mallik

Ansble-playbook test.yml Remote_user = <Service Account >

Ansible.cfg

ansible --> adhoc command # ansible-playbook # ansible-playbook <playbook name> # ansbl -

Inventory

Hosts vars tasks Play Playbooks Modules

Indentation Idempotation

Shell Script / Power Shell

Ansible playbook

File1 hello

File2 hello

Cp file1 file2

Yml

- Nam: this is my playbook

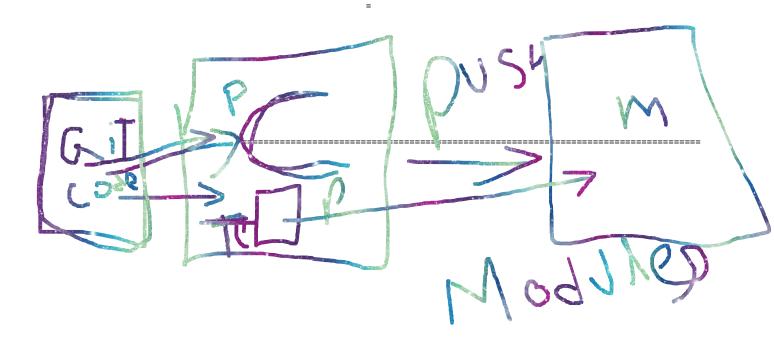
- Hosts: host1

- Vars:

name: Os_version

- nam2:

- Tasks:



| Copy file |
|---------------------------------------|
| Shell |
| Command |
| Сору.ру |
| # ansible-doc -l> all the modules |
| # ansible-doc shell |
| Each module we have number attributes |
| # Is -I La -Ia |
| Cp file file2 |
| Cp -r |
| Hosts |
| Variables : |
| String Lists |
| Disctionaries |
| Tasks |
| Play |
| Playbook |

One playbook may have multiple tasks and multiple playbook

Installing Ansible on Oracle linux

Oracle Linux 8/9

sudo dnf install -y oracle-epel-release-el8 sudo dnf config-manager --set-enabled ol8_developer_EPEL sudo dnf install -y ansible

For Oracle Linux 7

sudo yum install -y oracle-epel-release-el7 sudo yum-config-manager --enable ol7_developer_EPEL

sudo yum install -y ansible

Installing Ansible on Ubuntu

\$ sudo apt update \$ sudo apt install software-properties-common \$ sudo add-apt-repository --yes --update ppa:ansible/ansible \$ sudo apt install ansible

Installing Ansible on Debian

\$ UBUNTU_CODENAME=jammy

\$ wget -O- "https://keyserver.ubuntu.com/pks/lookup?fingerprint=on&op=get&search=
0x6125E2A8C77F2818FB7BD15B93C4A3FD7BB9C367" | sudo gpg --dearmour -o /usr/share/keyrings/ansible-archivekeyring.gpg

\$ echo "deb [signed-by=/usr/share/keyrings/ansible-archive-keyring.gpg]

http://ppa.launchpad.net/ansible/ansible/ubuntu \$UBUNTU_CODENAME main" | sudo tee

/etc/apt/sources.list.d/ansible.list

\$ sudo apt update && sudo apt install ansible